

MSFC Hazard Communication Program Overview

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What is Hazard Communication?

Hazard Communication provides workers the right-to-know the hazards and identities of the chemicals they are exposed to in the workplace.

Hazard Communication Elements

- Container Labeling
- Material Safety Data Sheets (MSDS)
- Chemical Inventory
- Chemical Storage
- Training

Container Labeling

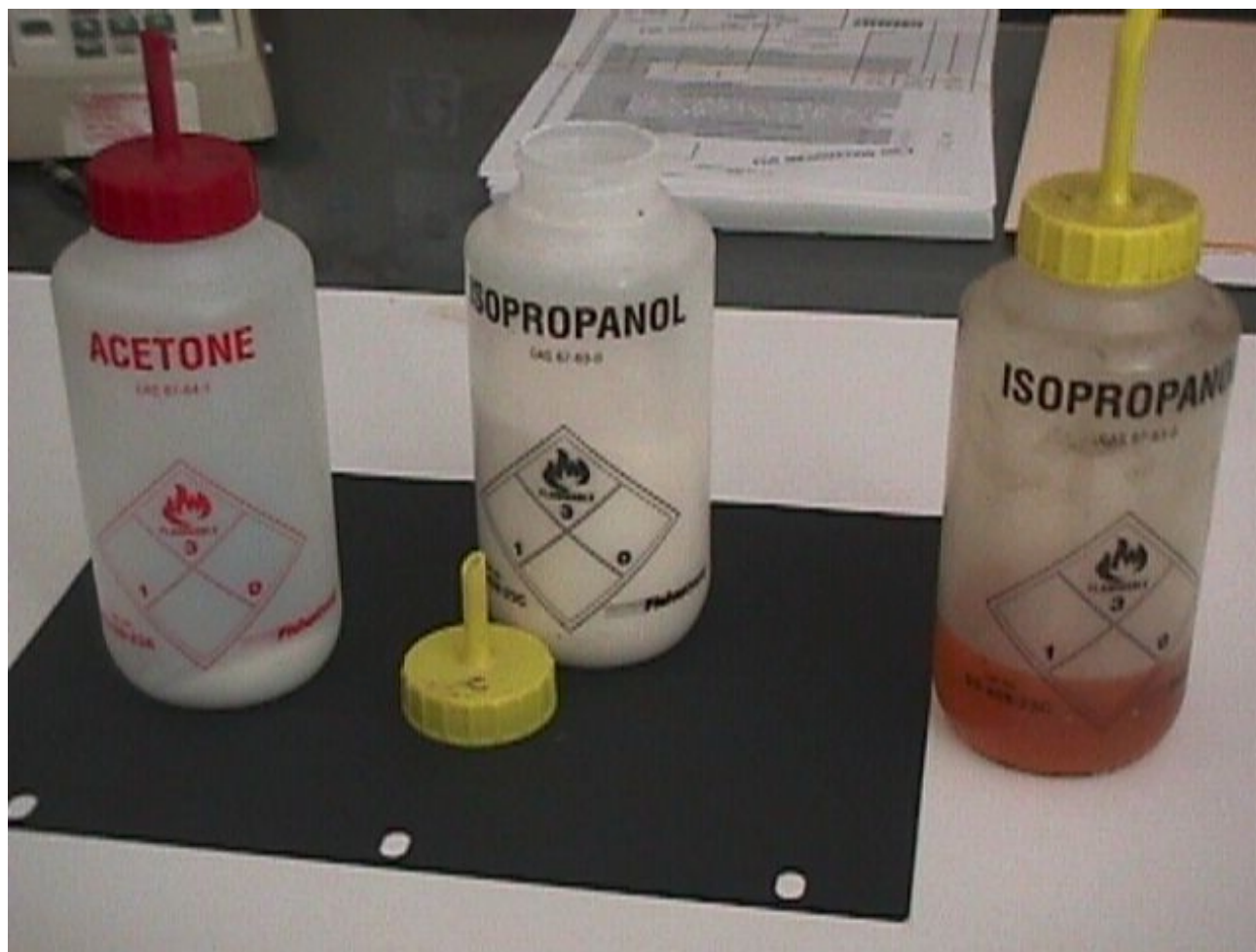
- Label all containers
- Labeling consists of: name (as it appears on the MSDS) & appropriate hazard warnings
- Replace torn or damaged labels
- Label containers that have had chemicals transferred into them

What's in this container?



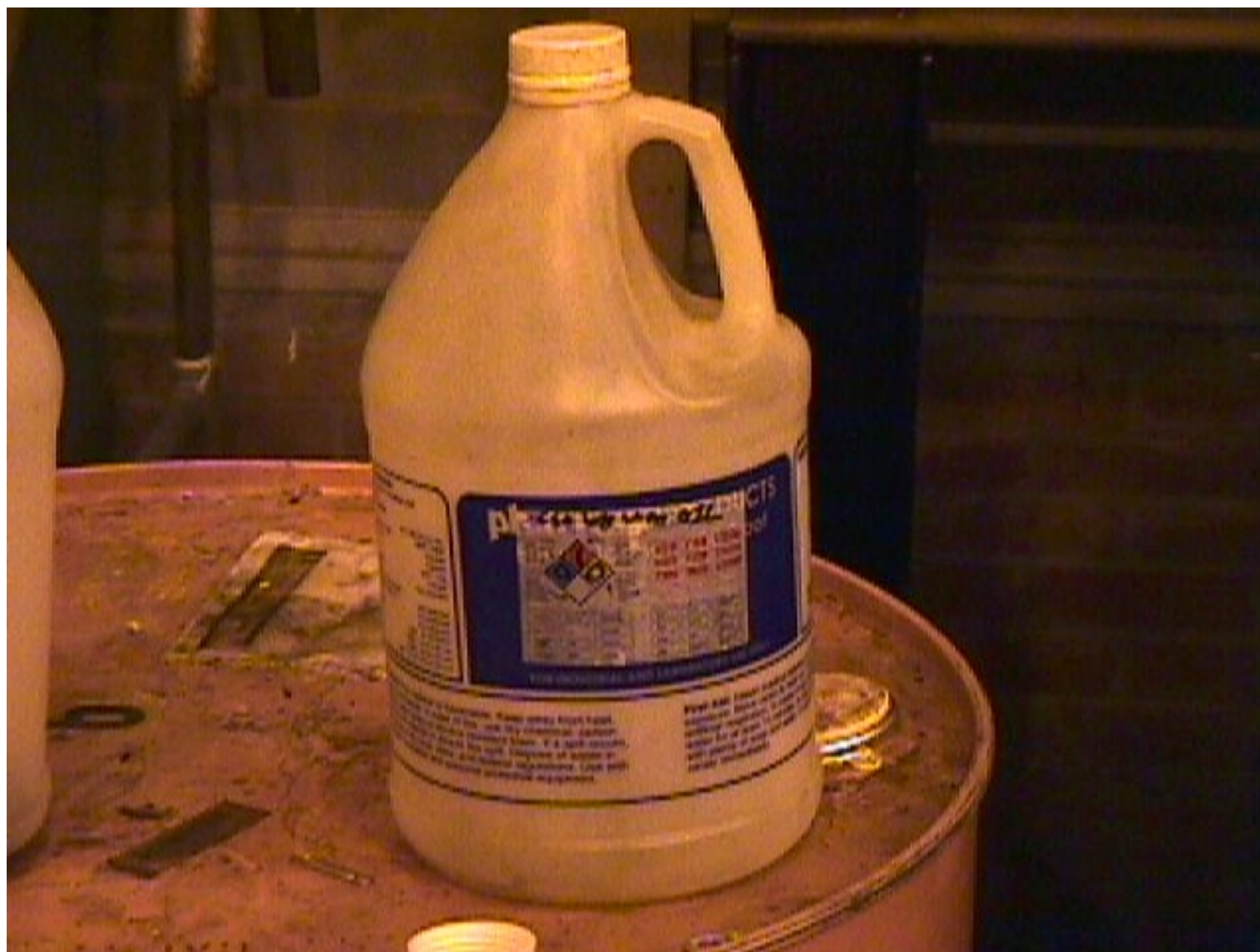
Many chemicals are clear, without proper labeling the contents are unknown

The contents must match the labeling

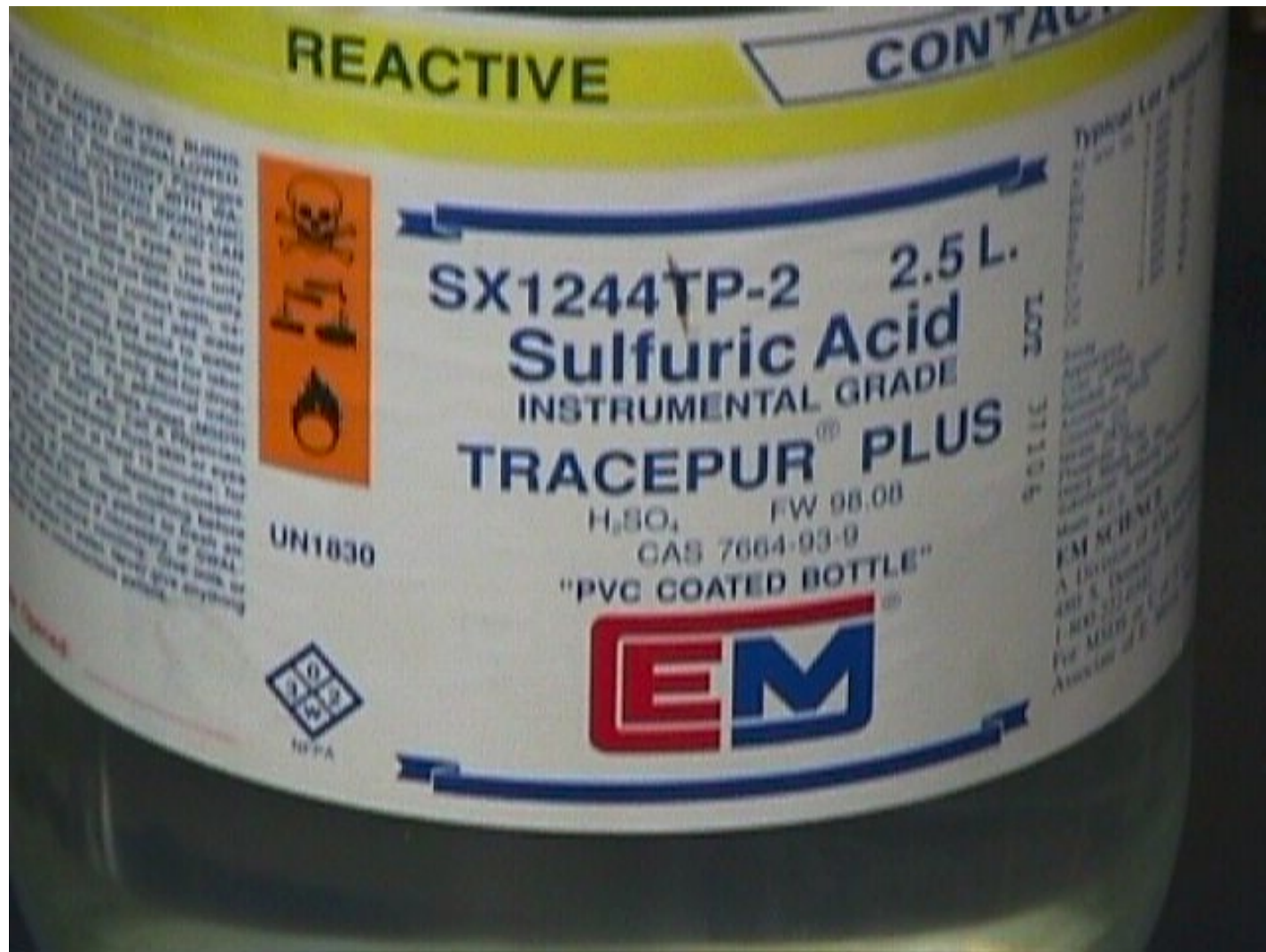


In this photo the containers were used for sugar, non dairy creamer, and an unknown liquid

Relabeled Container



Manufacturer's label



Generic Labels are available at the MSFC substore in Bldg. 4471 and OMEHS. You should refer to the MSDS to find the appropriate data to enter onto the label

CHEMICAL NAME _____			Address _____		
Chemical Manufacturer's / Importer Name _____			Emergency Phone _____		

HEALTH HAZARD 4 Deadly 3 Extreme danger 2 Hazardous 1 Slightly hazardous 0 Normal		FIRE HAZARD Flash Points 4 Below 73° F 3 Below 100° F 2 Above 100° F, not exceeding 200° F 1 Above 200° F 0 Will not burn
SPECIFIC HAZARD ACID Acid ALK Alkali COR Corrosive OXID Oxidizer P Polymerization R Radioactive W Use No Water		REACTIVITY 4 May detonate 3 Shock & heat may detonate 2 Violent chemical change 1 Unstable if heated 0 Stable

ROUTE OF EXPOSURE ✓ Mark Appropriate Items			PERSONAL PROTECTION ✓ Mark Appropriate Items		
<input type="checkbox"/> INHALATION	<input type="checkbox"/> INGESTION	<input type="checkbox"/> ABSORPTION THROUGH SKIN	<input type="checkbox"/> Safety Glasses	<input type="checkbox"/> Apron	<input type="checkbox"/> Respirator
<input type="checkbox"/> NO HEALTH HAZARD	<input type="checkbox"/> TOXIC	<input type="checkbox"/> HIGHLY TOXIC	<input type="checkbox"/> Face Shield	<input type="checkbox"/> Boots	<input type="checkbox"/> Self Contained Air Respirator
<input type="checkbox"/> CARCINOGEN	<input type="checkbox"/> IRRITANT	<input type="checkbox"/> SENSITIZER	<input type="checkbox"/> Gloves	<input type="checkbox"/> Splash Goggles	<input type="checkbox"/> Full Protection Suit
			<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER

HEALTH HAZARDS ✓ Mark Appropriate Items			TARGET ORGANS ✓ Mark Appropriate Items		
<input type="checkbox"/> CORROSIVE	<input type="checkbox"/> SKIN	<input type="checkbox"/> LUNGS	<input type="checkbox"/> CARDIOVASCULAR SYSTEM		
<input type="checkbox"/> EYES	<input type="checkbox"/> KIDNEYS	<input type="checkbox"/> CENTRAL NERVOUS SYSTEM			
<input type="checkbox"/> BLOOD	<input type="checkbox"/> LIVER	<input type="checkbox"/> AUTONOMIC NERVOUS SYSTEM			
<input type="checkbox"/> HEART	<input type="checkbox"/> RESPIRATORY SYSTEM	<input type="checkbox"/> REPRODUCTIVE SYSTEM			

Stationary containers, dip tanks, and bins must be labeled.



Material Safety Data Sheets (MSDS)

- Shall be readily accessible for each chemical used within the work area via hardcopy and/or electronically
- Access through intranet--
 - http://eemo.msfc.nasa.gov/environmental/haz_mat/msds_search.htm
- A master file is maintained by Environmental Health Services
 - A copy of the MSDS shall be forwarded to OMEHS for all new chemicals procured or brought onto MSFC premises

Chemical Inventory

- Users are to maintain a current chemical inventory of all hazardous chemicals used on Center
- All hazardous chemicals must be reported to Environmental Engineering Dept. via MSFC Form 4099
- For more information go to url http://eemo.msfc.nasa.gov/environmental/haz_mat/CHEMTRAIN/chemtrain.pdf

Chemical Storage

- Chemicals should be stored in appropriate cabinets/areas
- Segregate chemicals according to compatibility
- Lab hoods should not be used for chemical storage
- Minimize quantities of stocked chemical

Who should receive HAZCOM Training?

- All employees should receive awareness training
- Employees who may be exposed to hazardous chemicals on a routine basis when working
- Supervisor's of above personnel
 - Supervisors' are responsible for training employees and ensuring they have been informed of the hazards of the chemicals in their work-area
- Web based Awareness training will soon be available on SOLAR.
 - Supervisor training is provided by Environmental Health Services

Hazard Communication

For more Information on the MSFC Hazard Communication Program refer to MPG 1840.2 at

https://msfcmr03.msfc.nasa.gov/RightSite/getcontent/tempfile.pdf?DMW_FORMAT=pdf&DMW_OBJECTID=090033d78005bb18

or contact Occupational Medicine and Environmental Health Services @ 4-2390